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## NOTICE OF ALLOWANCE AND FEE(S) DUE

25096 7590 08/22/2008

PERKINS COIE LLP  
PATENT-SEA  
P.O. BOX 1247  
SEATTLE, WA 98111-1247

EXAMINER

SAFAIPOUR, HOUSHANG

ART UNIT

PAPER NUMBER

2625

DATE MAILED: 08/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/015,569

12/17/2001

Hsing-Tung Wang

320528201US

6245

TITLE OF INVENTION: APPARATUS HAVING A LIGHT SOURCE FOR A TRANSPARENT SHEET OF A SCANNER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/24/2008

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25096 7590 08/22/2008

PERKINS COIE LLP  
PATENT-SEA  
P.O. BOX 1247  
SEATTLE, WA 98111-1247

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/015,569 12/17/2001 Hsing-Tung Wang 320528201US 6245

TITLE OF INVENTION: APPARATUS HAVING A LIGHT SOURCE FOR A TRANSPARENT SHEET OF A SCANNER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/24/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
SAFAIPOUR, HOUSHANG	2625	358-474000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/015,569	12/17/2001	Hsing-Tung Wang	320528201US	6245
25096	7590	08/22/2008	EXAMINER	
PERKINS COIE LLP PATENT-SEA P.O. BOX 1247 SEATTLE, WA 98111-1247			SAFAIPOUR, HOUSHANG	
			ART UNIT	PAPER NUMBER
			2625	
DATE MAILED: 08/22/2008				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 897 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 897 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/015,569	WANG ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Houshang Safaipoor	2625	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an RCE filed on 7/18/2008.
2. ☒ The allowed claim(s) is/are 1,2,4-7,10-12,15-28 and 31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

/Houshang Safaipoor/  
Primary Examiner, Art Unit 2625

**DETAILED ACTION**

***EXAMINER'S AMENDMENT***

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of issue fee.

Authorization to amend the claims was given in telephone interview with Cameron B. Pilling (Registration No. 62,085) on August 12, 2008.

2. In the Claims:

1. (Currently Amended) An apparatus, comprising:  
a scanner upper portion having an upper surface;  
a light-emitting element proximate to the upper surface;  
a reflective plate disposed between said upper surface and said light-emitting element, said reflective plate being configured to reflect light emitted from said light-emitting element onto a first surface;  
an aperture formed at a first predetermined position on said reflective plate to decrease said reflected light on a portion of said first surface; and a spreading plate positioned between the light-emitting element and the first surface, wherein the spreading plate includes a ~~plurality of uncovered~~ first group of perforations that are less densely distributed than a second group of perforations.

2. (Previously Presented) The apparatus of claim 1 wherein the light-emitting element includes a lamp.

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3. (Canceled)

4. (Previously Presented) The apparatus of claim 1 wherein the reflective plate has a generally arced shape.

5. (Previously Presented) The apparatus of claim 1 wherein the reflective plate includes a "II" shape.

6. (Previously Presented) The apparatus of claim 1 wherein the aperture includes a central portion and first and second end portions extending from the central portion, wherein the central portion is wider than the first and second end portions.

7. (Previously Presented) The apparatus of claim 1 wherein the aperture includes a generally elongated shape.

8. (Canceled)

9. (Canceled)

10. (Currently Amended) The apparatus of claim 8 1 wherein the first group of perforations is located at an end portion of the spreading plate and the second group of perforations is located at a central portion of the spreading plate.

11. (Previously Presented) The apparatus of claim 1, further comprising a protective plate positioned between the light emitting element and the first surface for protecting the light-emitting element.

12. (Previously Presented) The apparatus of claim 1 wherein the light emitting element includes an LED array.

13-14. (Canceled)

15. (Currently Amended) A scanner component, comprising:

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a reflective plate including at least one aperture formed at a central portion of the reflective plate;

a light-emitting element proximate to the reflective plate;

a scanning platform, wherein the light-emitting element is between the reflective plate and the scanning platform; and

a spreading plate positioned between the light-emitting element and the scanning platform, wherein the spreading plate includes a ~~plurality of uncovered~~ first group of perforations that are less densely distributed than a second group of perforations.

16. (Previously Presented) The scanner component of claim 15 wherein the reflective plate is configured to be attached to an upper portion of a scanner.

17. (Previously Presented) The scanner component of claim 15 wherein the aperture does not reflect light produced by the light-emitting element.

18. (Previously Presented) The scanner component of claim 15 wherein the reflective plate includes a generally arced shape.

19. (Currently Amended) The scanner component of claim 15[-]wherein the aperture is a first aperture, and wherein the scanner component further comprises a second aperture formed in the reflective plate spaced apart from the first aperture.

20. (Previously Presented) An apparatus, comprising:

a scanner upper portion having an upper surface opposite a lower surface;

a light source within the scanner upper portion and configured to produce light;

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a reflective plate between the light source and the upper surface, wherein the reflective plate has at least one aperture formed therein and is configured to reflect at least a portion of the produced light from portions of the reflective plate not including the at least one aperture; and

a spreading plate between the light source and the lower surface, wherein the spreading plate includes a plurality of perforations having a first group of perforations less densely distributed than a second group of perforations.

21. (Previously Presented) The apparatus of claim 20 wherein the spreading plate is configured to distribute at least a portion of the produced light.

22. (Previously Presented) The apparatus of claim 20 wherein the reflective plate has a generally arced shape.

23. (Previously Presented) The apparatus of claim 20 wherein the reflective plate is generally U-shaped.

24. (Currently Amended) The apparatus of claim 20 wherein the at least one aperture is a first aperture, and wherein the reflective plate further includes a second aperture spaced apart from the first aperture.

25. (Previously Presented) The apparatus of claim 20 wherein the at least one aperture includes a center portion and first and second end portions extending from the center portion, wherein the center portion is wider than one of the first and second end portions.

26. (Previously Presented) The apparatus of claim 20 wherein the spreading plate has a generally arced shape.

27. (Currently Amended) A scanner component, comprising:

a reflective plate including a non-reflective central portion;



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a light-emitting element proximate to the reflective plate;  
a scanning platform proximate to the light-emitting element, wherein the light-emitting element is between the reflective plate and the scanning platform; and  
a light balancing member positioned between the light-emitting element and the scanning platform, wherein the light balancing member includes a ~~plurality of uncovered~~ first group of perforations that are less densely distributed than a second group of perforations.

28. (Previously Presented) The scanner component of claim 27 wherein the non-reflective central portion includes an aperture in the central portion of the reflective plate.

29-30. (Canceled)

31. (Currently Amended) A scanner, comprising:

a scanner upper portion having a first surface and a second surface;  
means for emitting light positioned within the scanner upper portion;  
means for reflecting light toward the second surface of the scanner upper portion,  
wherein the means for reflecting lights is positioned between the means for emitting light and the first surface of the scanner upper portion;  
means for distributing light toward the second surface of the scanner upper portion,  
wherein the means for distributing light is positioned between the means for emitting light and the second surface of the scanner upper portion, and wherein the means for distributing light includes a ~~plurality of uncovered~~ first group of perforations that are less densely distributed than a second group of perforations.

32. (Canceled)

/Houshang Safaipoor/  
Primary Examiner, Art Unit 2625

***Reasons for Allowance***

1. Claims 3, 8, 9, 13, 14, 29, 30 and 32 are canceled.
2. Claims 1, 2, 4-7, 10-12, 15-28 and 31 are allowed.
3. This is examiner's statement of reasons for allowance.

Regarding claims 1, 2, 4-7, 10-12, 15-28 and 31, the prior art, either singularly or in combination, does not teach or suggest an apparatus, comprising:

“...a reflective plate disposed between said upper surface and said light-emitting element, said reflective plate being configured to reflect light emitted from said light-emitting element onto a first surface; an aperture formed at a first predetermined position on said reflective plate to decrease said reflected light on a portion of said first surface; and a spreading plate positioned between the light-emitting element and the first surface, wherein the spreading plate includes a first group of perforations that are less densely distributed than a second group of perforations.”

The features identified, in combination with other claim limitations, are neither suggested nor discussed by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

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4. ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Houshang Safaipoor whose telephone number is (571)272-7412. The examiner can normally be reached on Mon.-Thurs. from 6:30am to 3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles whose telephone number is (571)272-7402. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Houshang Safaipoor/  
Primary Examiner, Art Unit 2625  
August 13, 2008